

# Introduction (part 2)

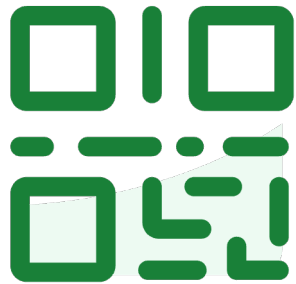
Notes for the SIT-DP module: **Developing Immersive Applications**

Created by: Chek Tien TAN



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# Recap

- differentiate AR, VR, MR and XR
- describe the historical evolution of immersive technologies

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**VR was invented in the 21st  
Century (2001 - 2100)**

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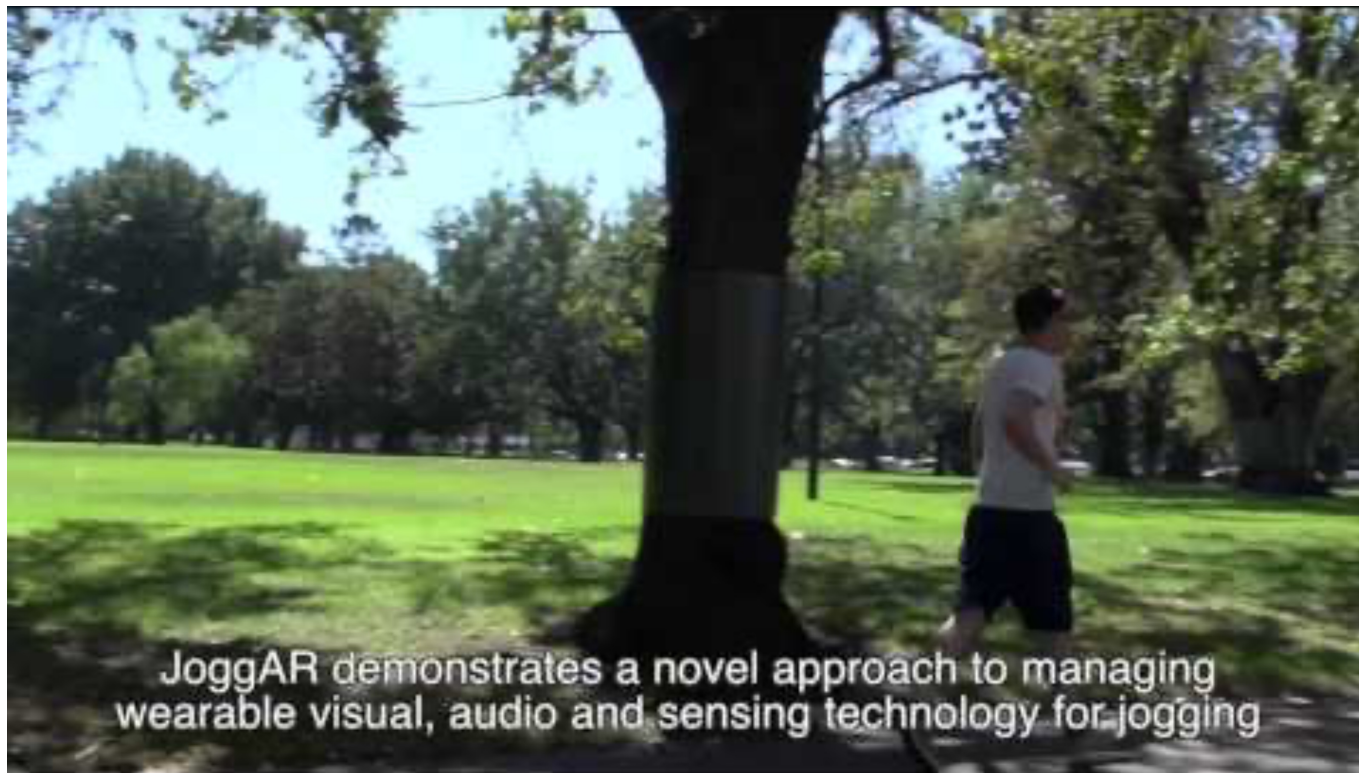
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**Which device sparked the current  
(21st Century) rise of VR?**

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# What type of experience is this?



JoggAR demonstrates a novel approach to managing wearable visual, audio and sensing technology for jogging

<https://youtu.be/d3wx3VGtFjo>

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**What type of experience is this?**

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# What type of experience is this?



<https://youtu.be/d3wx3VGtFjo>



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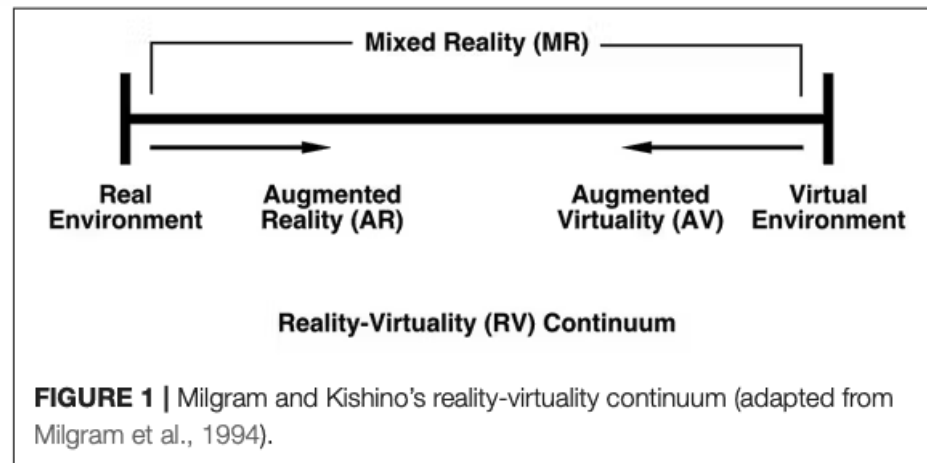
**What type of experience is this?**

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# Milgram-Kishino's RV Continuum

- not the immersification continuum...
- originally meant for display technologies

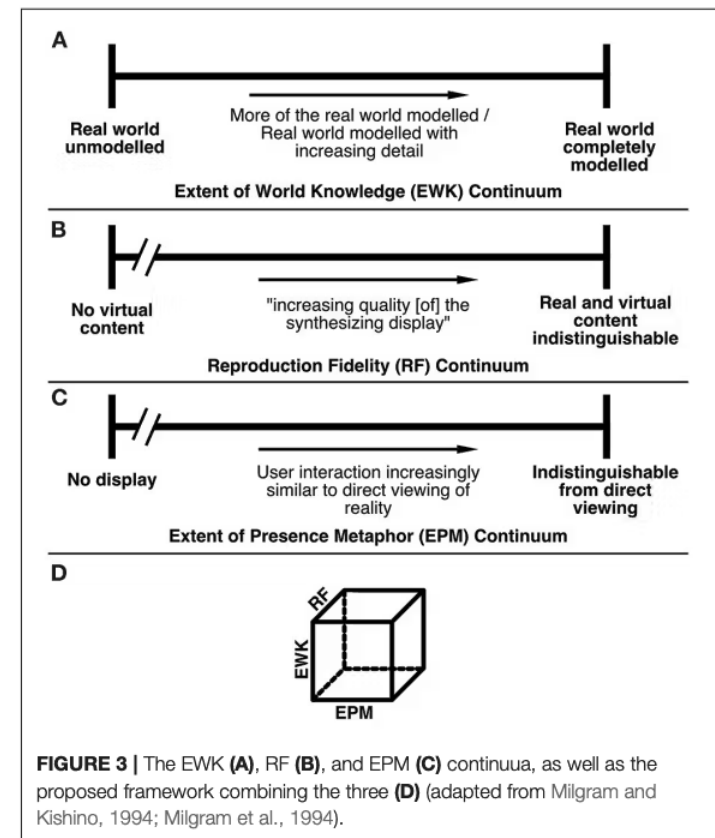
<https://doi.org/10.1117/12.197321>



# Dimensions of RV Continuum

- EWK is how much system understands the real world
- RF is how realistic the assets are
- EPM is how interaction affords realism

<https://doi.org/10.1117/12.197321>



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**Where should Pokemon GO be  
placed on the RV Continuum?**

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**Where should Beat Saber be  
placed on the RV Continuum?**

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**Where should Strava be placed on  
the RV Continuum?**

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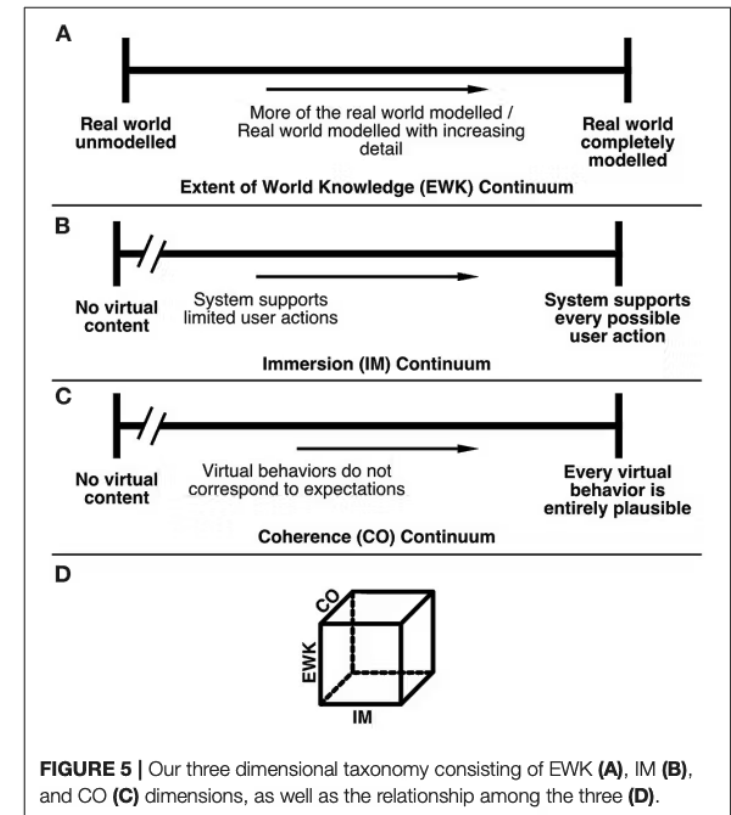
**Why is Strava not considered to be near the  
extreme end of "Real Environment" in the RV  
spectrum?**

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# Revisiting the RV Continuum

- combined the RF and EPM into IM (our THE article came before this 😅)
- added CO to represent the user
- note that this but one academic paper
- common perception of MR is different

<https://doi.org/10.3389/frvir.2021.647997>





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**What is the common public  
perception of the difference  
between AR and MR?**

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**"The 3D models are extremely high quality."**

**What dimension of the RV continuum is this referring to?**

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**"The 3D virtual dogs are able to jump onto the real table seen through the camera."**

**What dimension of the RV continuum is this referring to?**

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**"The stereo optics provide a perception of depth through an LCD display."**

**What dimension of the RV continuum is this referring to?**

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**"For a moment I believed that I was actually 1000ft  
above ground."**

**What dimension of the RV continuum is this  
referring to?**

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